

# Surge Protective Devices (SPD)

## Brick Replacement

### PRECAUTIONS

### **⚠ DANGER**

#### **HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**

- Apply appropriate personal protective equipment (PPE) and follow safe electrical work practices. See NFPA 70E.
- This equipment must only be installed and serviced by qualified electrical personnel.
- Turn off all power supplying this equipment before working on or inside equipment.
- Always use a properly rated voltage sensing device to confirm power is off.
- Replace all devices, doors and covers before turning on power to this equipment.

**Failure to follow these instructions will result in death or serious injury.**

### WARRANTY

For warranty information about your Surge Protection Device, go to the APC Web site: [www.apc.com](http://www.apc.com). Choose **Products**, and then choose **Surge Protection and Power Conditioning**. Scroll down to **Hardwire Surge Suppression**.

Choose your part number from among the three categories listed under Hardwire Surge Suppression. A screen containing information specific to your Surge Protection Device is then displayed. Click on the **Documentation** tab to locate the file containing your warranty.

### INSTALLATION

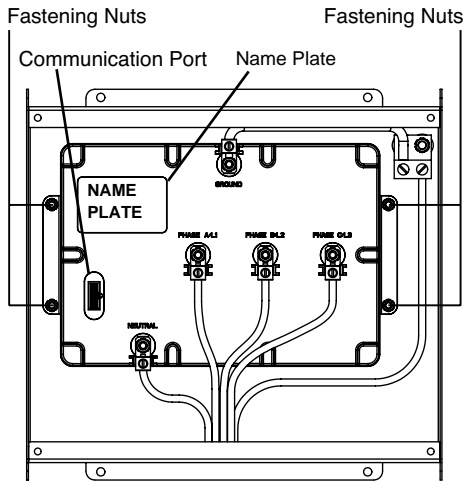
Verify that all brick replacement modules have the correct catalog number. The catalog number is found on the nameplate of each brick replacement module (see Figure 1) and on the SPD device nameplate. Use Table 1 to determine the correct replacement catalog number based on the existing SPD system voltage and peak surge current rating.

**Table 1: Brick Module Replacements**

SYSTEM VOLTAGE	PEAK SURGE CURRENT RATING	PRODUCT NUMBER
120/240V, 1 phase, 3 wire Wye	120 kA	BMP3-A
120/208V, 3 phase, 4 wire Wye	120 kA	BMF3-A
220/380V, 3 phase, 4 wire Wye	120 kA	BMH3-A
277/480V, 3 phase, 4 wire Wye	120 kA	BMG3-A
347/600V, 3 phase, 4 wire Wye	120 kA	BML3-A

**Table 2: Installation Torque**

Power Connection	Terminal Torque	
	W/O Disconnect	W/ Disconnect
AØ, BØ, CØ & N	35 lb-in (4N·M)	50 lb-in (5.7N·M)
Ground	50 lb-in (5.7N·M)	

**Figure 1: Replacement Brick****Three Phase, 3- or 4-Wire, Grounded Wye Installation**

1. Turn off all power to the SPDR Brick.
2. Mark the phase cables for the brick to be replaced (if they are not already marked) with the appropriate A, B, or C phase and unplug the communication cable from the brick.
3. Remove the phase, neutral, and ground wires (if applicable) from the brick.
4. Remove and discard the 4 fastening nuts and carefully remove the brick. See Figure 1.
5. Install the new brick using the hardware kit supplied insuring that fastening nuts are tight.
6. Attach the phase cables, neutral, and ground wires (if applicable) to the associated brick lugs ensuring the lug set screws are tight. Refer to Table 2 for the proper torque specifications.
7. Check that all connections are secure. Remove all tools and discarded hardware from the unit.
8. Plug the communication cable into the brick receptacle following the plug orientation guide attached to the brick.
9. Replace the barrier, cover/door, and/or trim to the equipment (if applicable).
10. Equipment may be re-energized after all of the above steps are complete.